## In the Abstract:

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Combustion failures of an internal combustion engine are controlled in closed loop fashion by sampling an engine r.p.m.to obtain a speed signal. The speed signal is subjected to a Hartley-Transformation to obtain angular frequencies or engine orders which are further processed to identify the cylinder which had a combustion failure and thereby reduced an actual engine power output compared to a rated power output. A power output correcting signal is produced and supplied to the engine. system for performing these steps includes at least a speed sampler, а frequency analyzer to perform Hartley-Transformation, a cylinder identifier or classifier and a controller which supplies the closed loop control signal to the engine.